



**SPECTRUM  
TECHNOLOGIES**



# SIENNA™ 300 Series

**LASER WIRE STRIPPER  
SIMPLIFY MANUFACTURING  
INCREASE PRODUCTIVITY – REDUCE COST**

From Spectrum Technologies - the global leader in laser wire processing systems

# SIENNA™ 300 SERIES

## HIGH POWER DUAL BEAM LASER WIRE STRIPPERS

The SIENNA 300 series is the higher power version of the SIENNA 200 CO2 infra-red laser wire stripping systems designed and manufactured by Spectrum Technologies.

### SIENNA 300

SIENNA 300 series systems are bench-top systems suitable for processing wire and cable with tougher, higher resistance insulation materials, as well as the more standard wire and cable used in electronics manufacture.

The systems have laser beam focussing heads at the top and bottom of the tooling fixture allowing the beam to alternate between the two, to process above and below the wire.

The systems are available in two laser powers: 25 or 50 Watt, and in two configurations : single axis where the laser head has only one direction of movement; or dual axis where there are two axes of movement.

Speed and laser power are easily adjusted using the integrated control keypad on the single axis and fixed beam versions; the dual axis version can also be programmed and controlled by PC.

### EXAMPLES OF CABLE AND STRIP PATTERNS THAT CAN BE PROCESSED:

16 mm ribbon cable, end stripped and partially removed by a single axis SIENNA 325 system



4 x 2 Infiniband cable, outer jacket, mylar layer and inner polymer insulation stripped with SIENNA 300 system



### BENEFITS OF THE SIENNA 300 SERIES

- High quality and damage-free - the laser is reflected off the conductor, plating, or other metallic surfaces
- Easy and clean stripping of tough insulation materials
- Accurate
- Repeatable
- One machine for all wire configurations - single wire, twisted pairs, coaxial and ribbon cables
- Processes multiple wires or cables simultaneously
- Laser strips high temperature, hard or soft insulation materials effectively
- End strips, window strips and other patterns easily performed in one operation
- Increased job storage on dual axis versions with to PC software
- Higher power laser options
- All SIENNA systems are Class 1 laser products for use on open shop floor, unless otherwise stated
- Complies to CAT 3 electrical safety category and all CE marking and FDA regulations
- Technical helpline operating across the global clock
- Operational training for Production and Technical personnel carried out at installation
- One machine for all wire configurations - single wire, twisted pairs, coaxial and ribbon cables
- Maintenance contracts available to keep systems operating at optimum performance
- Worldwide customer support from a dedicated team of Field Service Engineers or by fully trained Service Agents

# SIENNA™ 300 SERIES

## Summary specifications

<b>Model</b>	SIENNA 325S	SIENNA 325D	SIENNA 350S	SIENNA 350D
<b>Laser</b>	25 Watt air cooled CO2 Class 1		50 Watt air cooled CO2 Class 1	
<b>Configuration</b>	Single axis	Dual axis	Single axis	Dual axis
<b>Control</b>	Microprocessor with keypad	Microprocessor with keypad or PC	Microprocessor with keypad	Microprocessor with keypad or PC
<b>Wire Types</b>	Single core wires Twin leads Twisted pairs Multi-conductor & ribbon cables			
<b>Wire Sizes</b>	<6mm (0.24") OD Or ribbon cable <100mm (4mm) wide			
<b>Accuracy</b>	+/- 0.2 mm (0.008")			
<b>Process Area</b>	100mm in X or Y direction	100mm x 100mm (4" x 4")	100mm in X or Y direction	100mm x 100mm (4" x 4")
<b>Strip Patterns</b>	End strip only	End strips, longitudinal strips, window strips, simple patterns	End strip only	End strips, longitudinal strips, window strips, simple patterns
<b>Insulation Types (non-exhaustive)</b>	PTFE / Teflon® Tfze® PVC Polyurethane Silicon Kapton® Polyimide Polyesterimide Polyester Fibreglass Polythlene Nylon			
<b>Power Requirements</b>	110 - 120 Vac, 50/60 Hz 6 Amp. 1 phase 220 - 240 Vac, 50/60 Hz 1.5 Amp. 1 phase			
<b>Operating Conditions</b>	Ambient temperature 15°C to 30°C (60°F to 86°F) as standard Relative humidity 20% to 80% (non-condensing)			
<b>Dimensions L x W x H</b>	1045 x 605 x 510 mm (41" x 24" x 20")			
<b>Weight</b>	65 Kg (143 lbs)		65 Kg (143 lbs)	
<b>Options</b>	ACS-5 air cleaning system			

To comply with health and safety requirements, air exhaust must be provided when using any laser wire stripper. If this is not available in your factory, Spectrum's ACS-5 systems remove all smoke, odours, particles and fumes from the laser stripping area and return clean air to the room.

To discuss any of your requirements please contact us at [sales@spectrumtech.com](mailto:sales@spectrumtech.com) or on +44 (0)1656 655 437.



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